# **Special Issue**

## Cross-Kingdom RNA Trafficking for Crop Protection

### Message from the Guest Editor

Small RNA (sRNA)-mediated RNA interference (RNAi) is one of the key regulators in host immunity against bacteria, fungi, oomycetes, viruses, and pests. Except for working in host cells endogenously, these sRNAs can travel across the boundaries between organisms and induce gene silencing in the counterparty to suppress the virulence of pathogens, which is called crosskingdom RNAi. Based on this discovery, host-induced gene silencing (HIGS) by transgenic expression of pathogen gene-targeting double-stranded (ds)RNA has been used to control pathogen attacks in many different crops. Furthermore, the direct application of dsRNAs or sRNAs onto host plants (referred to as spray-induced gene silencing, SIGS) has also been proved functional to suppress pathogen virulence and confers efficient disease control. This Special Issue will focus on "Cross-Kingdom RNA Trafficking for Crop Protection". We welcome novel research, reviews and opinion pieces covering all related topics.

### Guest Editor

#### Dr. Baoye He

Department of Microbiology and Plant Pathology, Center for Plant Cell Biology, Institute for Integrative Genome Biology, University of California, Riverside, CA 92521, USA

### Deadline for manuscript submissions

closed (15 July 2022)



## Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.7



mdpi.com/si/88292

Agronomy Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 agronomy@mdpi.com

#### mdpi.com/journal/

agronomy





an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.7



agronomy



## About the Journal

### Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

### Editor-in-Chief

Prof. Dr. Leslie A. Weston Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

### **Author Benefits**

### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)